

What is claimed is:

1. A wireless LAN system for predicting movement destination of a child station, which includes the child station and parent stations, wherein each parent station comprises:

5 a wireless communication section for conducting communication with the child station;

a table control section for acquiring a table in which MAC address of each movement destination parent station has been registered, when handover of the child station put under QoS communication is detected
10 through the wireless communication section;

a band reserving request signal transmitting section for sending a transmission instruction of the band reserving request frame to the movement destination parent station; and

a LAN communication section for receiving the transmission
15 instruction and transmitting the band reserving request frame to the movement destination parent station via LAN.

2. The wireless LAN system for predicting movement destination of the child station according to claim 1, wherein

said parent station further comprises a signal strength measuring
20 section for receiving and quantifying a beacon signal of at least one adjacent parent station of the parent stations,

said table control section receives information of the qualified beacon signal and produces the table obtained by selecting and registering only the parent station which generates a signal with a constant value or
25 more thereby handling the table as movement destination parent station position information, and

when the child station is moved, the band reserving request frame is

transmitted to the parent station which is predicted as the movement destination on the basis of the movement destination parent station position information which the table control section has.

3. The wireless LAN system for predicting movement destination
5 of a child according to claim 1, wherein

said parent station further comprises a movement direction
determining section for comparing MAC addresses of the parent stations
existing in a movement source and the movement destination of the child
station with each other, and for nullifying the transmission instruction of
10 the reserving request to the band reserving request signal transmitting
section, when the MAC addresses are the same.

4. The wireless LAN system for predicting movement destination
of a child according to claim 2, wherein

said parent station further comprises a movement direction
15 determining section for comparing MAC addresses of the parent stations
existing in a movement source and the movement destination of the child
station with each other, and for nullifying the transmission instruction of
the reserving request to the band reserving request signal transmitting
section, when the MAC addresses are the same.

20 5. The wireless LAN system for predicting movement destination
of a child according to claim 1, further comprising a local area route
information server for providing route information in a local area to each
parent station in LAN, wherein

said parent station further comprises a route state determining
25 section for storing the route information about a direction in which the child
station can not be moved and nullifying a transmission instruction of the
reserving request to the parent station positioned in the direction in which

the child station can not be moved to the band reserving request signal transmitting section on the basis of the route information.

6. The wireless LAN system for predicting movement destination of a child according to claim 2, further comprising a local area route
5 information server for providing route information in a local area to each parent station in LAN, wherein

said parent station further comprises a route state determining section for storing the route information about a direction in which the child station can not be moved and nullifying a transmission instruction of the
10 reserving request to the parent station positioned in the direction in which the child station can not be moved to the band reserving request signal transmitting section on the basis of the route information.

7. The wireless LAN system for predicting movement destination of a child according to claim 3, further comprising a local area route
15 information server for providing route information in a local area to each parent station in LAN, wherein

said parent station further comprises a route state determining section for storing the route information about a direction in which the child station can not be moved and nullifying a transmission instruction of the
20 reserving request to the parent station positioned in the direction in which the child station can not be moved to the band reserving request signal transmitting section on the basis of the route information.

8. The wireless LAN system for predicting movement destination of a child according to claim 1, wherein

25 said table control section counts the number of movement times of the child station for each aspect of movement source per movement destination from association setting information at a handover time to

produce the table obtained by calculating movement destination ratios of the child station, and instructs to transmit the band reserving request frame to the parent station with the highest movement probability of the table.

5 9. The wireless LAN system for predicting movement destination of a child according to claim 2, wherein

 said table control section counts the number of movement times of the child station for each aspect of movement source per movement destination from association setting information at a handover time to
10 produce the table obtained by calculating movement destination ratios of the child station, and instructs to transmit the band reserving request frame to the parent station with the highest movement probability of the table.

 10. The wireless LAN system for predicting movement destination
15 of a child according to claim 3, wherein

 said table control section counts the number of movement times of the child station for each aspect of movement source per movement destination from association setting information at a handover time to
20 produce the table obtained by calculating movement destination ratios of the child station, and instructs to transmit the band reserving request frame to the parent station with the highest movement probability of the table.

 11. The wireless LAN system for predicting movement destination of a child according to claim 5, wherein

25 said table control section counts the number of movement times of the child station for each aspect of movement source per movement destination from association setting information at a handover time to

produce the table obtained by calculating movement destination ratios of the child station, and instructs to transmit the band reserving request frame to the parent station with the highest movement probability of the table.

5 12. A wireless LAN parent station for predicting movement destination of a child station, comprising:

 a wireless communication section for conducting wireless communication with the child station;

 a table control section for acquiring a table in which MAC address of
10 each movement destination parent station has been registered, when handover of the child station put under QoS communication has been detected through said wireless communication section;

 a band reserving request signal transmitting section for sending a transmission instruction of a band reserving request frame to the movement
15 destination parent station; and

 a LAN communication section for receiving the transmission instruction and transmitting the band reserving request frame to the movement destination parent station via LAN.